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Education and experience

- PhD (1982)-Biochemistry
- DSc (1994)-Microbiology
- 35 yrs research experience
- Teaching 3 credit course in Biotechnology

Achievements

- FMASc, FSBA

Research subjects:

- Microbiology
- Biochemistry and Molecular Biology

Research Areas

- Fungal morphogenesis: Dimorphism in *Benjaminiella poitrasii* and *Yarrowia lipolytica*; Conidiation in *Conidiobolus coronatus*
- Carbohydrate based enzymes: Cellulases, chitinases, chitin deacetylase,
- chitosanase and amylolytic enzymes.
- Other enzymes: Proteinases, glucose isomerase and polyphenol oxidase, glutamate dehydrogenase, ornithine decarboxylase
- Chitin metabolism as a target for biocontrol agents/ antifungal drugs
- Mycoinsecticides for insect pest control

Recent publications

Shingate B.B. et al. (2011) Stereoselective synthesis and antimicrobial activity of steroidal C-20 tertiary alcohols with thiazole/pyridine side chain. Eur J. Med. Chem. **46**: 3681-3689 (IF 3.269)  
Joshi C.V. et al (2010) Flocculation of dimorphic yeast *Benjaminiella poitrasii* is altered by modulation of NAD-glutamate dehydrogenase. Bioresource Technology **101**: 1393-1395 (IF 4.6)  
Chavan P. et al (2009) Natural yeast flora of different varieties of grapes used for wine making in India. Food Microbiol. 26:801-808 (IF 2.847; 1)  
Kulkarni S.A. et al (2008) Comparison of *Metarhizium* isolates for biocontrol of *Helicoverpa armigera* (Lepidoptera: Noctuidae) in chickpea. Biocontrol Sci. Technol. **18**: 809-828. (IF 1.087)